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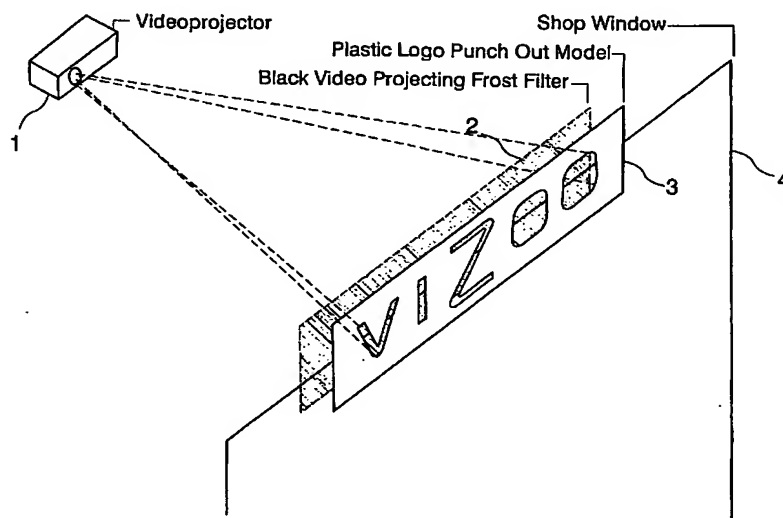
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(54) Title: A METHOD AND AN ARRANGEMENT FOR ADVERTISING OR PROMOTING



(57) Abstract: A method of advertising or promoting that comprises the step of projecting a light pattern having one or more illuminated areas onto a visible surface or screen (3), and wherein the light pattern defines a message or announcement area (3). Still and/or motion pictures (5) are projected into said illuminated areas. Further, an advertisement or promotion arrangement is disclosed, which comprises means for projecting (1) a light pattern comprising one or more illuminated areas defining a message or announcement area (3). The arrangement comprises a visible surface or screen (3) onto which said light pattern is projected and means for projecting (1) still or motion pictures (5) into said illuminated areas.

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A METHOD AND AN ARRANGEMENT FOR ADVERTISING OR PROMOTING

The present invention relates to a method of advertisement or promotion. More specifically, the invention relates to projection of pictures into illuminated areas, which
5 may, for example, define a logo or another promotional image, whereby a viewer will see both the illuminated logo and projected pictures, preferably motion pictures inside the logo (video logo).

This is obtained by the method of advertising or promoting according to the invention and
10 comprising:

- projecting a light pattern comprising one or more illuminated areas onto a visible surface or screen, said light pattern defining a message or announcement area, and
- projecting still or motion pictures into said illuminated area(s).

15 The visible surface or screen could, for example, be defined by openings in one or more plates and/or be one or more plate(s) arranged in front of a projector. Thus, the screen could be defined by openings cut in a plate made of e.g. plastic, wood, aluminium or steel. Alternatively, and presently preferred, the surface or screen may be composed by glass or plastic material, in particular an acrylic material. The material may be transparent or at
20 least translucent.

In order to deflect and/or transmit the light a layer of image forming material, such as translucent material, may be placed in front of the projector and before the visible surface or screen and which "catches" the light so that the viewer can see the projected light and
25 pictures. Thus, a translucent material, such as a frost filter film may be provided between the projector and the screen onto which the light pattern and pictures are projected. The projected light and pictures may then be deflected and/or transmitted by said film in order to present visible light and pictures to a viewer positioned at and spaced from the side of the screen being opposite to the projector (also called "back projection"). The frost
30 material may comprise a separate plate or plates of material positioned between the projector and screen, or the frost material may be provided on a side of the plate or the material of the plate may be translucent itself. In case the screen comprises openings in a plate, as mentioned above, translucent material may be placed at least behind said openings, or if the screen comprises one or more plates (e.g. defining a logo), at least the
35 backside of said plates may be translucent. In general, its a matter of providing a layer of non-transparent but translucent material that "catches" the light, also called a "diffusion screen".

The idea of providing still or motion pictures in a projected light pattern is useful as sales advertisement and promotion tool and may belong to the category of "display systems". The idea is to create a connection between e.g. a company and what it produces or sells. Thus, the illuminated areas may define a logo of a company or anything else, and with the
5 living pictures inside the logo, a story is presented to a viewer looking at the logo. An example could be a logo for Coca Cola® where people drinking Coca Cola® are shown in the illuminated areas forming the logo.

Preferably, the outline(s) of the illuminated areas is/are substantially identical to the
10 outline(s) of the openings and/or said plate(s) defining the screen. Thus, the projected light from the projector may exactly fit to the shape of the plates or openings positioned in front of the projector. The distance between the projector and the screen or plates may be adjusted so that edges of the illuminated areas are totally coincident with the edges of the openings or plates defining screen.

15

In order to obtain that the above light pattern becomes identical to the shape of the illuminated areas or visible surface, the projected light pattern may be provided by editing a digital image (such as a digital image of the logo) defining areas to be illuminated, the method comprising the following image processing steps:

20

- darkening the part of the picture outside said areas,
- cleaning the colours from said areas, and
- drawing up the contours of said areas in the picture with a coloured non-black line.

25 The result of the above editing will be an image showing the illuminated areas in a sharp edged preferably white coloured form on a dark background. Now, the projector will project light identical to the edited image, and by adjusting the distance to the screen the projected contours (or sharp edges) of the light pattern will be coincident with the contours of the visible surface or screen.

30

When editing it may be advantageous to use "an alpha key" for providing said light pattern.

Based on the edited image of the illuminated areas, it is possible to put in still or motion
35 pictures in each of the illuminated areas, so that e.g. a movie may be played in each letter or separate part of a logo. In order to provide these pictures, the method further comprises the step of editing captured still or motion pictures in order to have said pictures projected within said area(s) defined by said non-black line. Different still or motion pictures may be shown in different illuminated areas.

Preferably, the step of darkening comprises providing the colour type "black level 0" on the background. Thus, light is only transmitted on the visible surface or screen and not outside the edges of the visible surface or screen, as the projector then does not waste any light
5 outside the screen which is important.

There may be one or more video projectors or computer controlled video projectors for projecting said light pattern and pictures, and the video projector may project said light pattern and pictures in a 4:3 format or 16:9 format.

10

The motion pictures may show objects and/or living beings.

The projector and screen may be positioned on the roof of building or on the ceiling or floor of a room, whereby the projector may be placed concealed or invisible to the viewer.
15

The logo formed by the illuminated areas may have any shape, such as an icon standing alone or as letters hanging over a main entrance to a store, or mounted on the roof of a building showing living pictures or elements within letters. In the latter, the viewer will see letters and elements standing apart with motion pictures inside each letter or elements.

20

It may be advantageous to create a clearly visible borderline along outlines or edges of the logo (or icon) parts as this will provide a certain 3-dimensional effect to a viewer viewing the video logo, e.g. from the street, through a window and into a store where the projection arrangement is provided.

25

The visible surface or the visible side of the screen may be that opposite to the projector, so that the light and pictures are back projected on the screen in relation to the viewer. However, the viewer may view the light pattern and pictures from the other side of the screen too.

30

Preferably, the image processing is provided by an image-editing program on a computer, and the editing of the captured still or motion picture is provided by a video editing program.

35 Though, it is mentioned that the screen or visible surface is provided in or by plates, the screen may be provided by any kind of object that may work as a "diffusion screen".

According to a second aspect, the present invention relates to an advertisement or promotion arrangement that comprises means for projecting a light pattern comprising one

or more illuminated areas defining a message or announcement area, a visible surface or screen onto which said light pattern is projected, and means for projecting still or motion pictures into said illuminated areas.

- 5 The arrangement may comprise any of the features mentioned above in connection with the first aspect, and it may be used to carry out said method.

Description of the figures

- 10 Fig. 1 shows an arrangement according to the invention, wherein the screen is defined by openings in a plate,

Fig. 2 shows the final result of the projection of the arrangement in fig. 1, and

- 15 Fig. 3 shows an arrangement according to the invention, wherein the screen is provided by plates forming letters of a logo, and

Figs. 4-9 shows different embodiments of projections.

- 20 Fig. 1 shows the arrangement according to the invention. A video projector 1 projects the light pattern and the still or motion pictures. A frost filter 2 is provided behind the plate 3 wherein the logo/screen is cut ("viZoo") for obtaining the projected light pattern and motion pictures. The viewer will see motion pictures 5 in the letters of the logo 3 from the window side 4 on the opposite side of the logo 3 in relation to the projector, as shown in
25 fig. 2

- Fig. 3 shows an arrangement where letters 3 that are cut out from a material, preferably acrylic material, provides the screen onto which the light and pictures are projected. The side of the acrylic material facing the projector has a frost side 2, such as a frost film filter,
30 in order to deflect/transmit the light and pictures being projected from the projector 1. Thus, the viewer will see the motion pictures 5 in the letters from the opposite side 4 of the screen in relation to the projector 1.

- Figs. 4 shows a projection of an icon of a mobile phone, and wherein still or motion
35 pictures are projected in the area defined by the display of the mobile phone. The screen is cut out in plastic material, and the shape of the projected light pattern is identical to the shape of the screen. If the projector is turned off, the viewer will only see a frost plastic plate having the contour of the mobile phone, but not the mobile phone and the motion pictures in the display.

Fig. 5 shows the same embodiment as shown in fig. 3, but with a different screen (logo).

Figs. 6-9 shows projections according to the invention, wherein the screen is formed as a
5 logo defined by adjacent positioned plates each defining a letter of the logo. The plates are
made of acrylic material and have a frost side facing the projector in order to make it
translucent. Thus, a diffusion screen is provided.

An embodiment of the method of editing the contents of the video material (still or motion
10 pictures) will now be described:

Firstly, a logo is provided in a digital version that is transferred to an image-editing
program in a computer. The background of the logo is covered with black colour (black
level 0), and then the logo is cleaned for colours and patterns inside the logo, e.g. inside
15 the letters of the logo. Using an alpha key behind the logo best does this. It is
advantageous to have a graphical outline which will provide a more 3-dimensional effect in
the final projection.

Now, the logo is ready to be filled up with still or motion pictures e.g. inside its letters,
20 which is done in the video editing program. Preferably, the logo is in EPS-format (the same
logo-format that may be used to produce/cut out the screen) and used as mask for the
editing of the video material. A thin coloured line is drawn along the edge of the mask and
thus shows the logo even in a dark video picture. The video material (still or motion
pictures) is placed in the remaining mask of the logo so that the entire logo is filled up with
25 pictures. The final video movie now consists of a 4:3 format where everything else than
the logo is dark.

CLAIMS

1. A method of advertising or promoting, said method comprising;
 - 5 - projecting a light pattern comprising one or more illuminated areas onto a visible surface or screen, said light pattern defining a message or announcement area, and
 - projecting still and/or motion pictures into said illuminated areas.
2. A method according to claim 1, wherein the visible surface or screen is defined by
10 openings in one or more plates and/or by one or more plates.
3. A method according to any of the claims 1 or 2, wherein the plate(s) is/are made of plastic, wood, aluminium, steel or acrylic material.
- 15 4. A method according to any of claims 1-3, wherein a layer of image forming material, such as a translucent material, is provided in front of the projector and onto which the light pattern and pictures are projected.
5. A method according to any of the claims 1-4, wherein the outlines of the illuminated
20 areas correspond to the outlines of the openings or plates defining the visible surface or screen.
6. A method according to any of claims 2-5, wherein said plate(s) is arranged in front of a projector projecting the light pattern and/or motion pictures.
25
7. A method according to any of claims 1-6, wherein the illuminated areas and/or screen define a logo.
8. A method according to any of claims 1-7, wherein the projected light pattern is provided
30 by editing a digital image defining said areas to be illuminated in order to provide a mask, the method comprising the following image processing steps of:
 - darkening the part of the image surrounding said areas,
 - cleaning the colours from said areas, and
 - 35 - drawing up the contours of said areas in the picture with a coloured non-black line.
9. A method according to claim 10, further comprising the step of editing captured still or motion pictures by use of said mask in order to have said pictures projected within said area(s) defined by said non-black line.

10. A method according to any of claims 1-9, wherein different still or motion pictures are shown in different illuminated areas.
- 5 11. A method according to any of claims 8-10, wherein the step of editing the image comprising using an alpha key.
12. A method according to any of claims 8-11, wherein the step of darkening comprises providing the colour type "black level 0" on the part surrounding said areas.
- 10 13. A method according to any of the preceding claims, wherein one or more video projectors or computer controlled video projectors project said light pattern and pictures.
14. A method according to claim 13, wherein the video projector projects said light pattern
15 and pictures in a 4:3 format or 16:9 format.
15. A method according to any of the preceding claims, wherein the motion pictures show objects and/or living beings.
- 20 16. A method according to any of claims 1-15, wherein the visible side of the visible surface or screen is that opposite to the projector.
17. A method according to any of claims 7-16, wherein the image processing is provided by an image-editing program on a computer.
- 25 18. A method according to any of claims 7-17, wherein the editing of the captured still or motion picture is provided by a video-editing program.
19. An advertisement or promotion arrangement, said arrangement comprising:
30
 - means for projecting a light pattern comprising one or more illuminated areas defining a message or announcement area,
 - a visible surface or screen onto which said light pattern is projected, and
 - means for projecting still or motion pictures into said illuminated areas.
- 35 20. An arrangement according to claim 19, wherein the means for projecting comprises one or more projectors and/or video projectors.

21. An arrangement according to claim 19 or 20, wherein the visible surface or screen is defined by openings in one or more plates and/or by one or more plate(s) arranged in front of a projector projecting the light pattern and/or motion pictures.

5 22. An arrangement according to claim 21, wherein the plate(s) is made of plastic, wood, aluminium, steel or acrylic material.

23. An arrangement according to claim 21 or 22, wherein the plate(s) is translucent.

10 24. An arrangement according to any of claims 19-23, wherein a layer of image forming material, such as a translucent material, is provided in front of the projector and onto which the light pattern and pictures are projected.

15 25. An arrangement according to claim 24, wherein said layer of image forming material is provided on a side of said plate(s) for deflecting and/or transmitting the projected light pattern and pictures.

20 26. An arrangement according to any of claims 22-25, wherein the acrylic material comprises a frost side onto which the light pattern and motion pictures are projected.

27. An arrangement according to any of claims 19-26, wherein the illuminated areas and/or screen define a logo.

25 28. An arrangement according to any of claims 19-27, further comprising means for editing a digital image defining said areas to be illuminated in order to provide a mask, said means being adapted to:

- darkening the part of the image surrounding said areas,
- cleaning the colours from said areas, and
- 30 - drawing up the contours of said areas in the picture with a coloured non-black line.

29. An arrangement according to claim 28, further comprising means for editing captured still or motion pictures by use of said mask in order to have said pictures projected within said area(s) defined by said non-black line.

35

30. An arrangement according to any of claims 19-29, wherein different motion pictures are shown in different illuminated areas.

31. An arrangement according to any of claims 28-30, wherein the digital image is edited by use of an alpha key.
32. An arrangement according to any of claims 28-31, wherein the colour type on the part
5 surrounding the areas is "black level 0" after darkening.
33. An arrangement according to any of claims 19-32, wherein one or more video projectors or computer controlled video projectors project said light pattern and pictures.
- 10 34. An arrangement according to claim 33, wherein the video projector projects said light pattern and picture sequences in a 4:3 format or 16:9 format.
35. An arrangement according to any of claims 19-34, wherein the still or motion pictures show objects and/or living beings.
15
36. An arrangement according to any of claims 19-35, wherein the outlines of the illuminated areas correspond to the outlines of the openings or plates defining the visible surface or screen.
- 20 37. An arrangement according to any of claims 19-36, wherein the visible surface or the visible side of the screen is that opposite to the side onto which the light pattern and the still or motion pictures are projected.
38. An arrangement according any of claims 19-37, wherein the visible surface or screen
25 comprises one or more adjacent plates.
39. An arrangement according to any of claims 27-38, wherein the means for editing comprises an image editing program on a computer.
- 30 40. An arrangement according to any of claims 29-39, wherein the means for editing said captured still or motion picture comprises a video editing program.
41. An arrangement according to any of claims 19-40 used for carrying out the method according to any of claims 1-18.
- 35 42. An arrangement according to any of claims 3-18, wherein the acrylic material comprises a frost side onto which the light pattern and motion pictures are projected.

43. A method according to any of claims 4-18, wherein the layer of image forming material is provided by frosting a side of the screen.

44. A method according to any of claims 4-18, wherein a frost filter film is provided
5 between the visible surface or screen and the projector for deflecting and/or transmitting the projected light pattern and pictures.

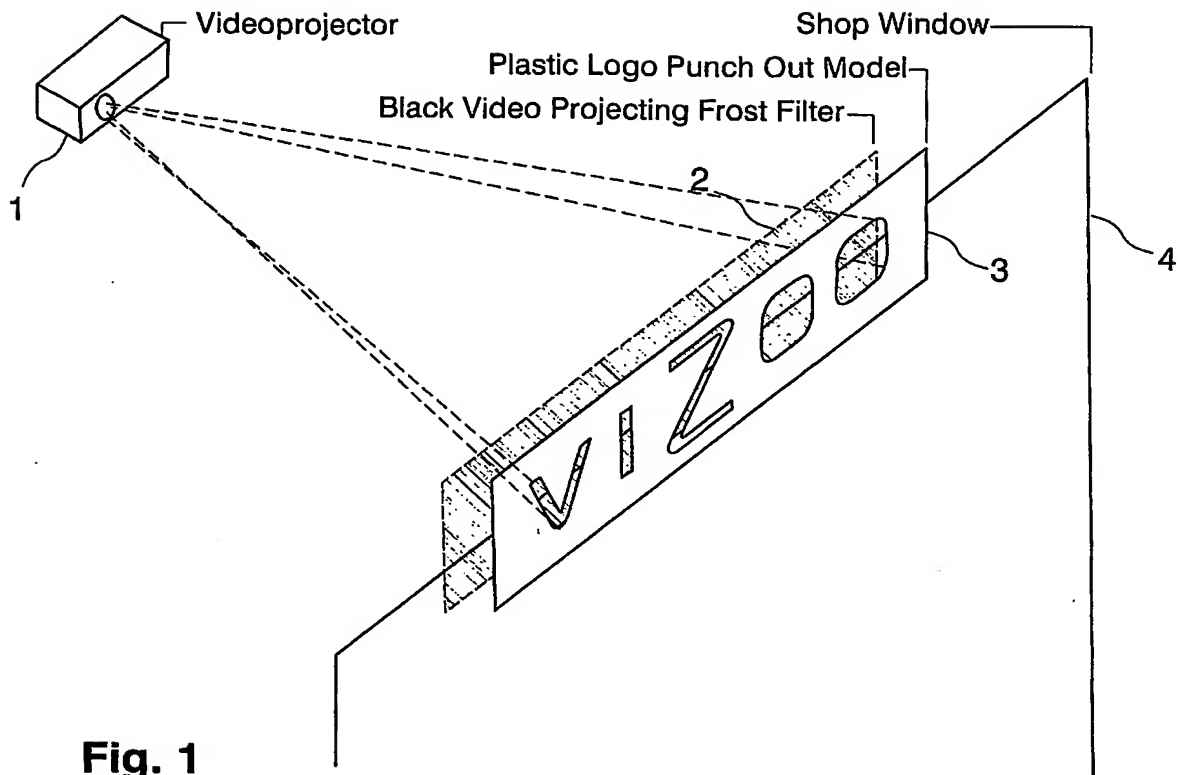
45. A method according to claim 43, wherein said film is provided on the visible surface or screen.

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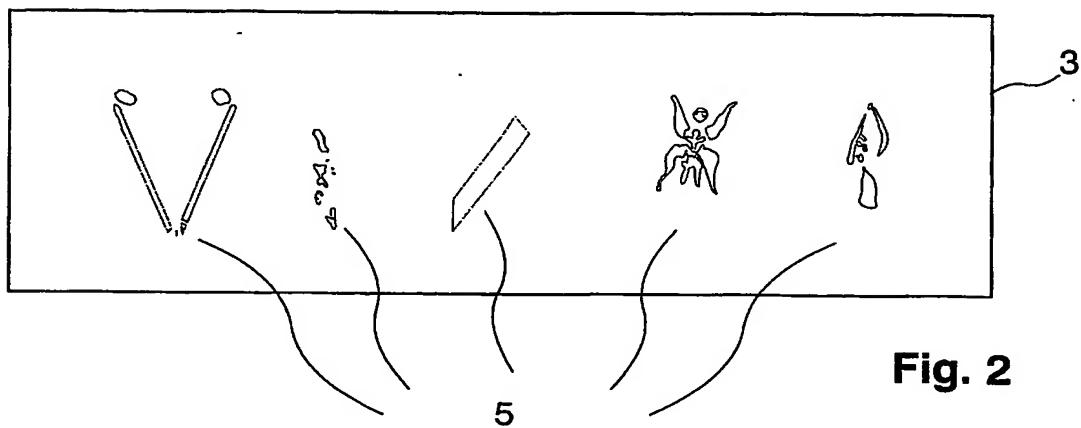
46. A method according to any of claims 1-18, wherein the plate(s) is translucent.

15

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Final result: The video projection plays inside the logo, telling a story about the company, a product etc.



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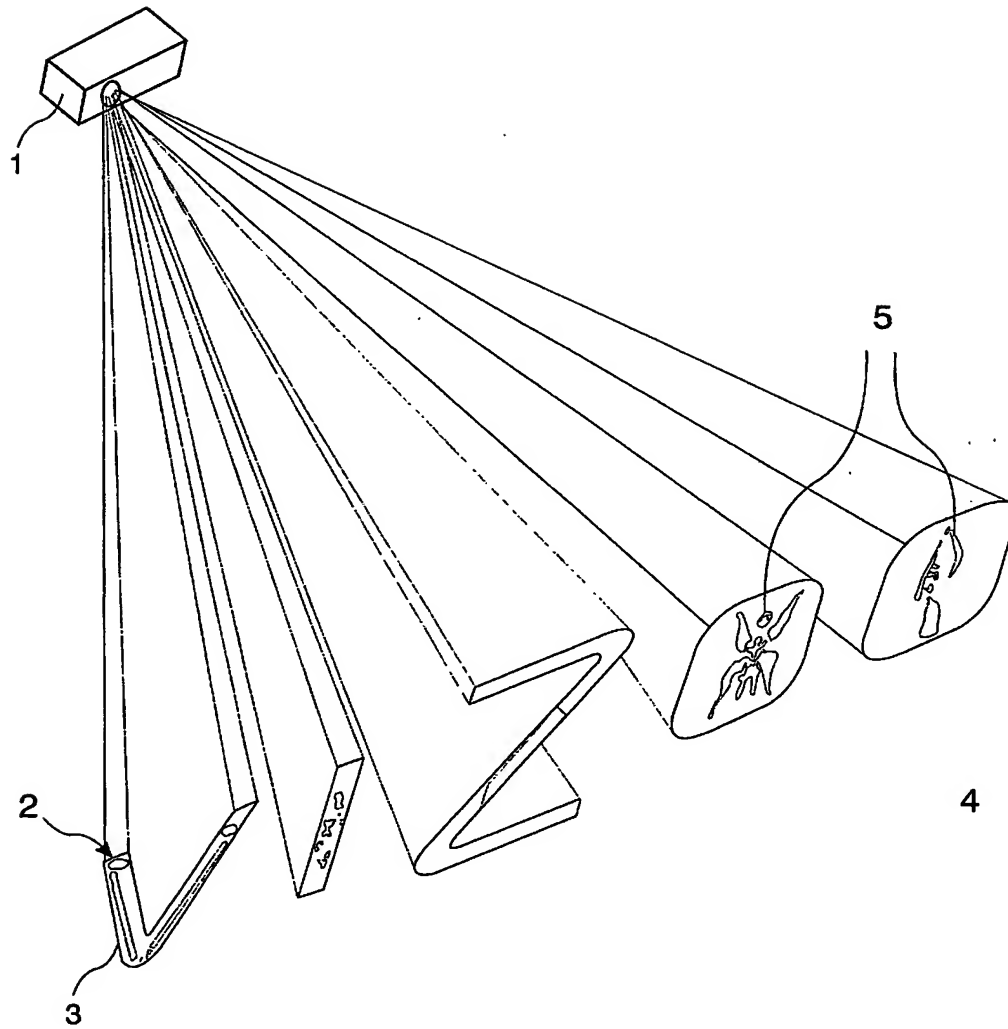


Fig. 3

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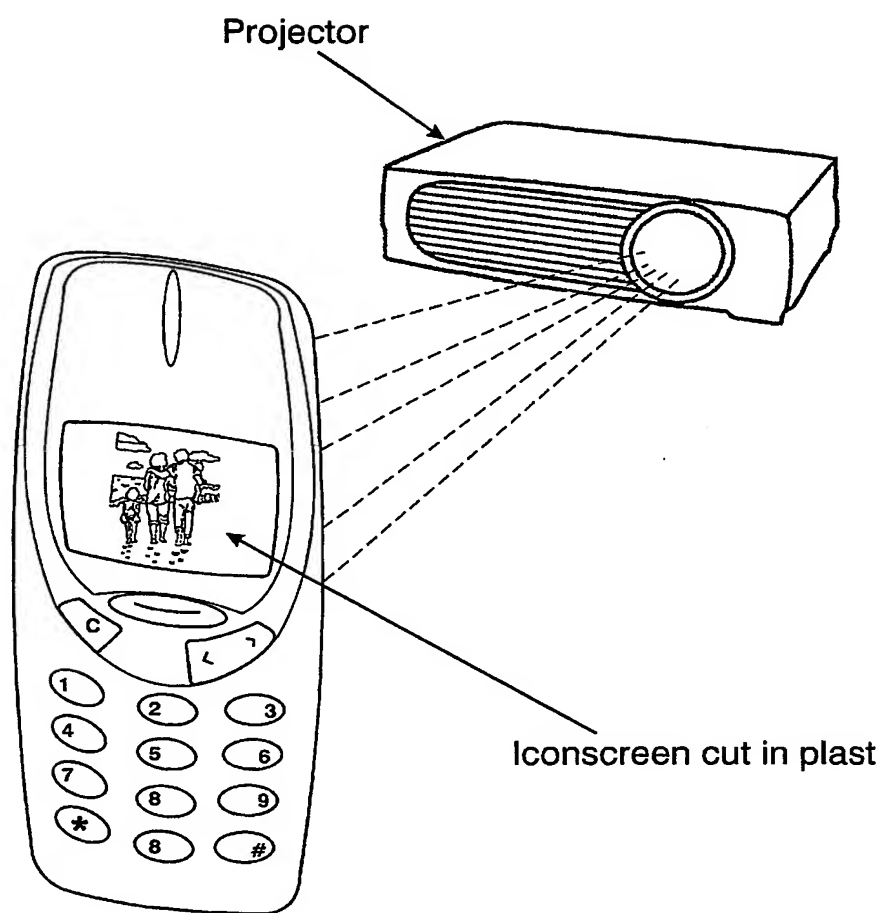


Fig. 4

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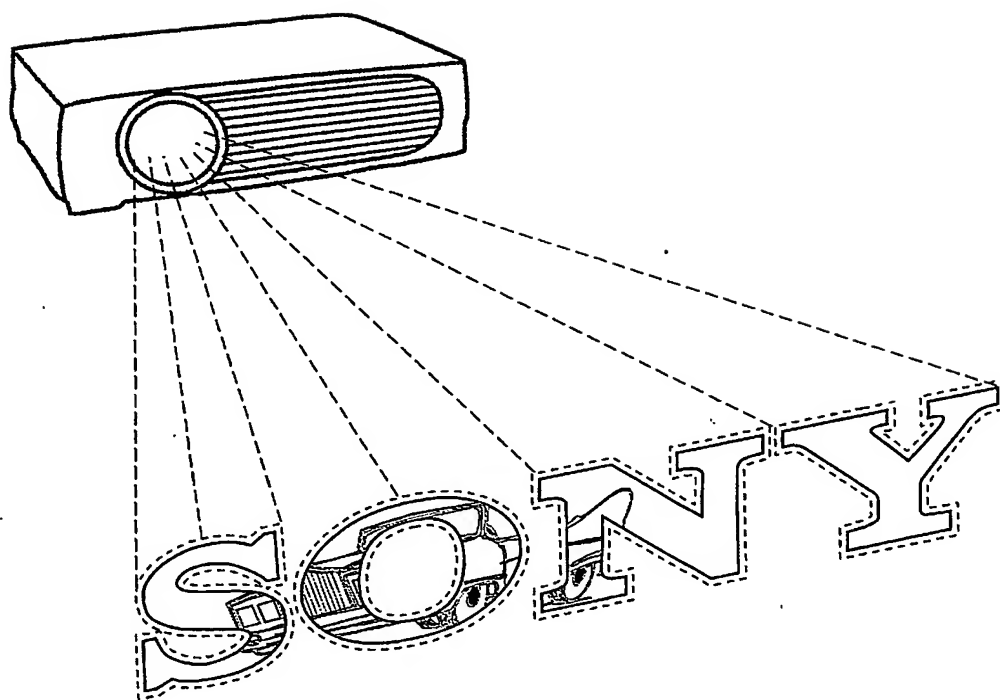


Fig. 5

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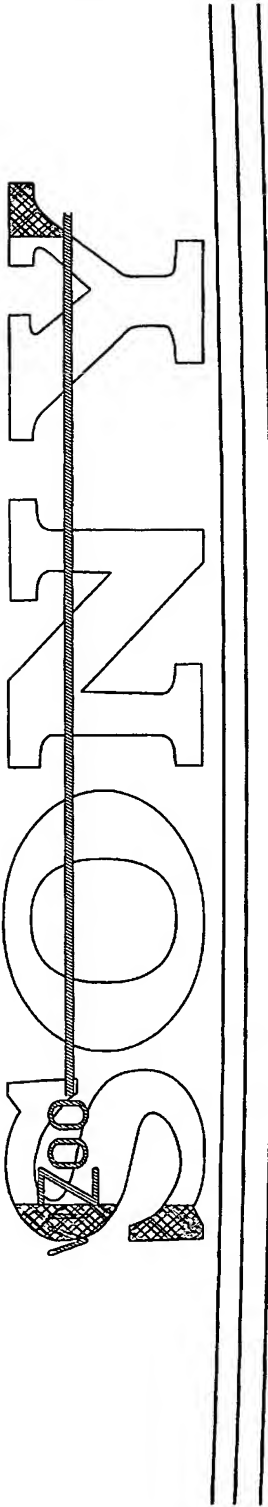


Fig. 6

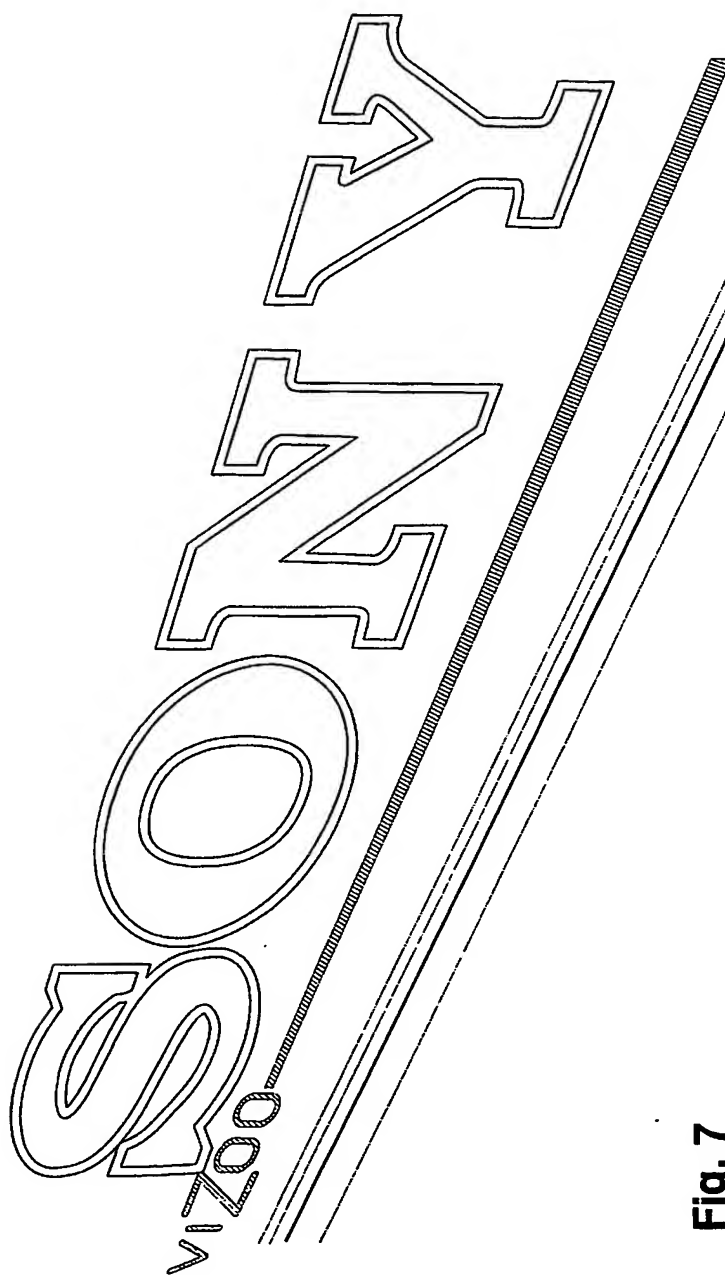


Fig. 7

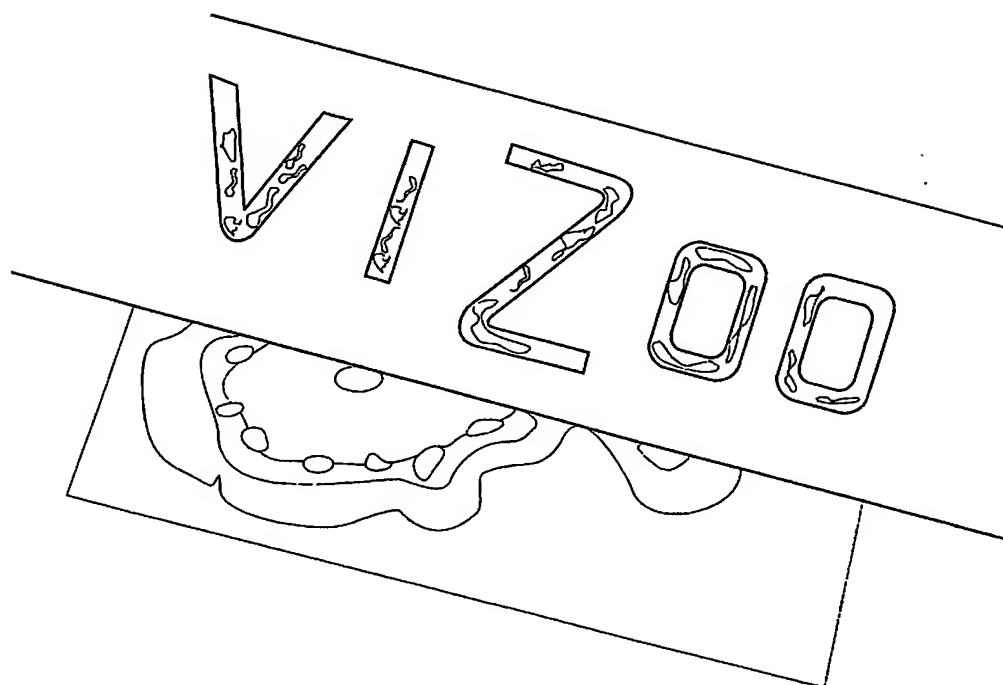
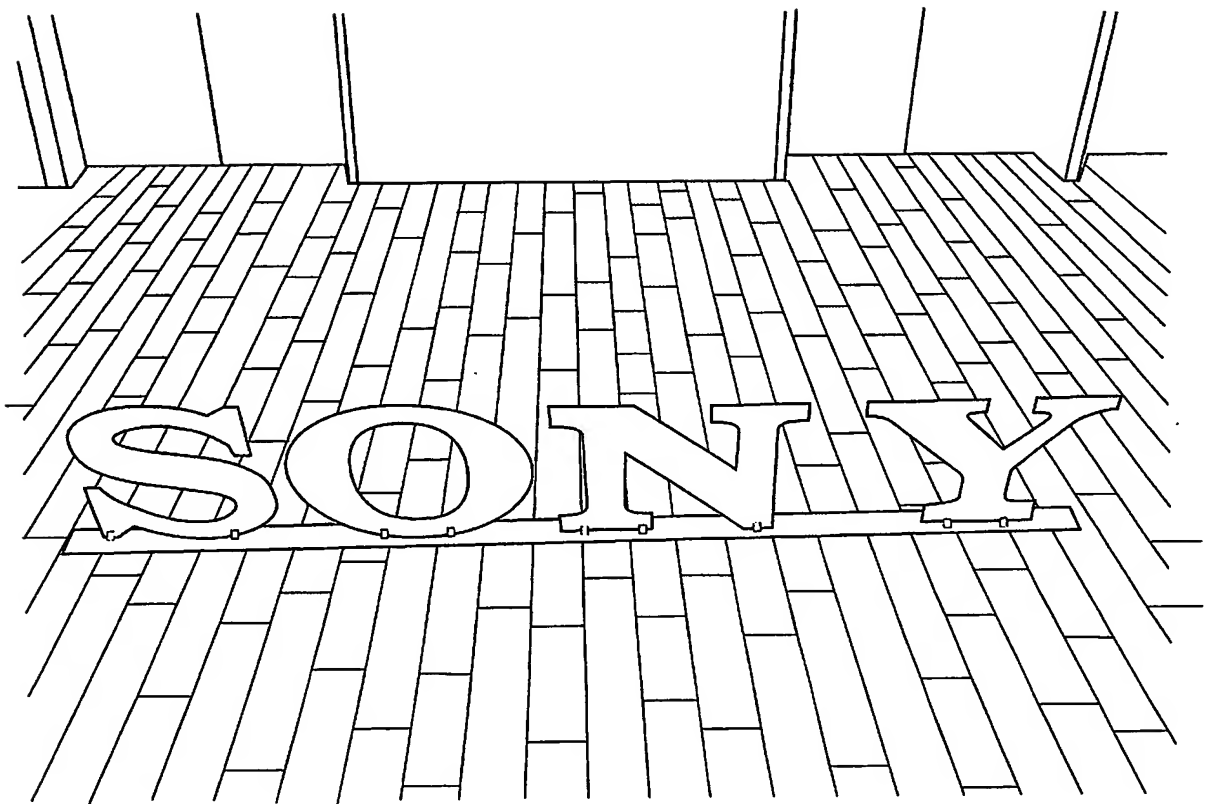


Fig. 8

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A. CLASSIFICATION OF SUBJECT MATTER
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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)
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C. DOCUMENTS CONSIDERED TO BE RELEVANT

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Information on patent family members

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